RETRO LED CLOCK

Capstone Challenge!

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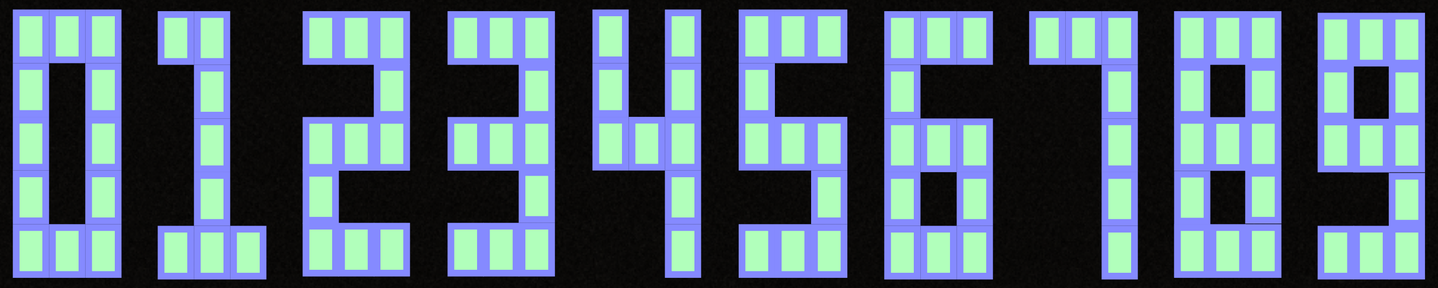

You need to create each digit as an array

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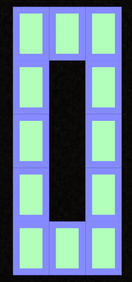

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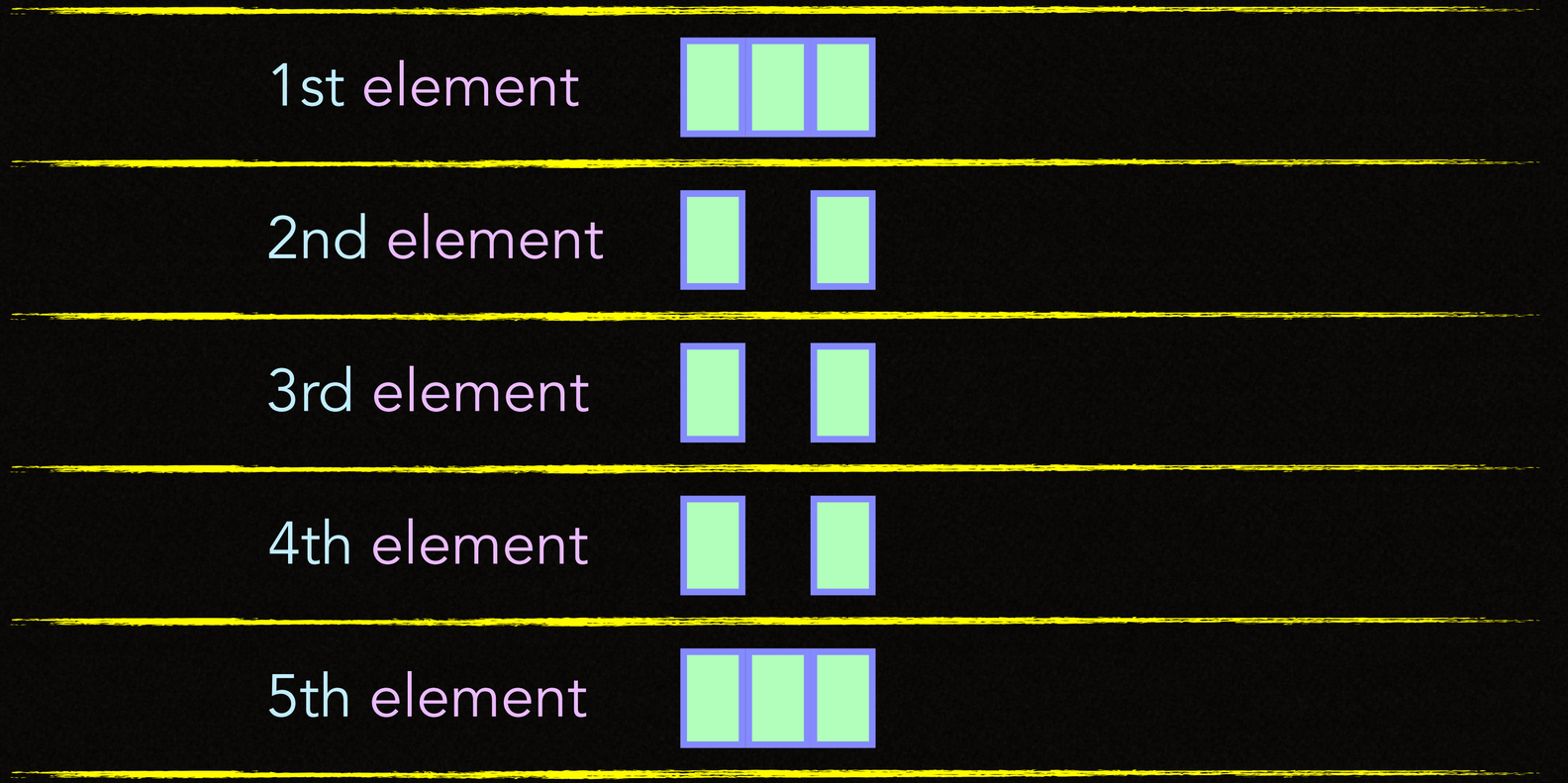
an array for the zero digit

[5]string



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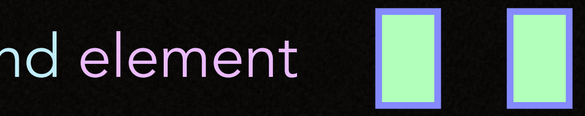
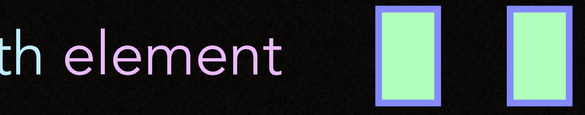
an example array for the zero digit

1st element

2nd element 

3rd element

4th element 

5th element

```
zero := [5]string{
    "   ",
    " | |",
    " | |",
    " | |",
    "   ",
}
```

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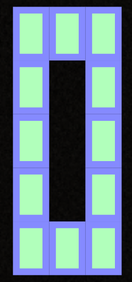

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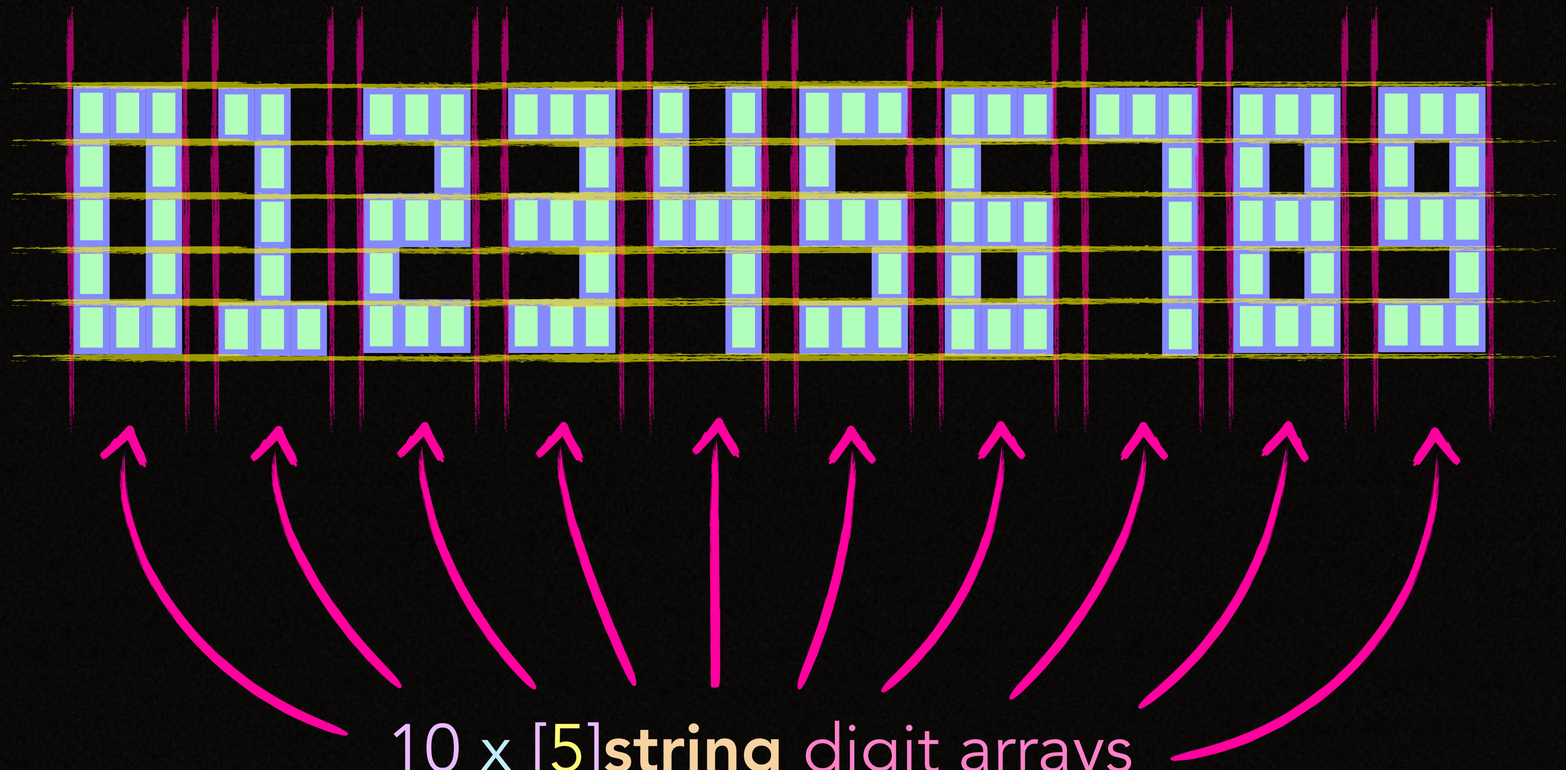
multi-dimensional digits array

[10][5]string



10 x [5]**string** digit arrays

You will use this **digits array** to populate another array → **clock**

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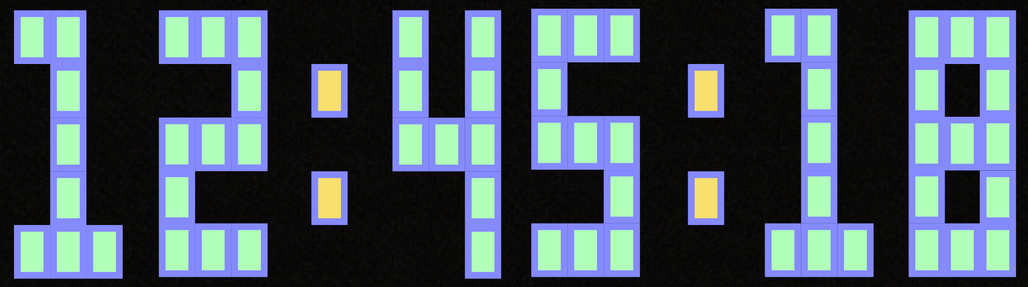

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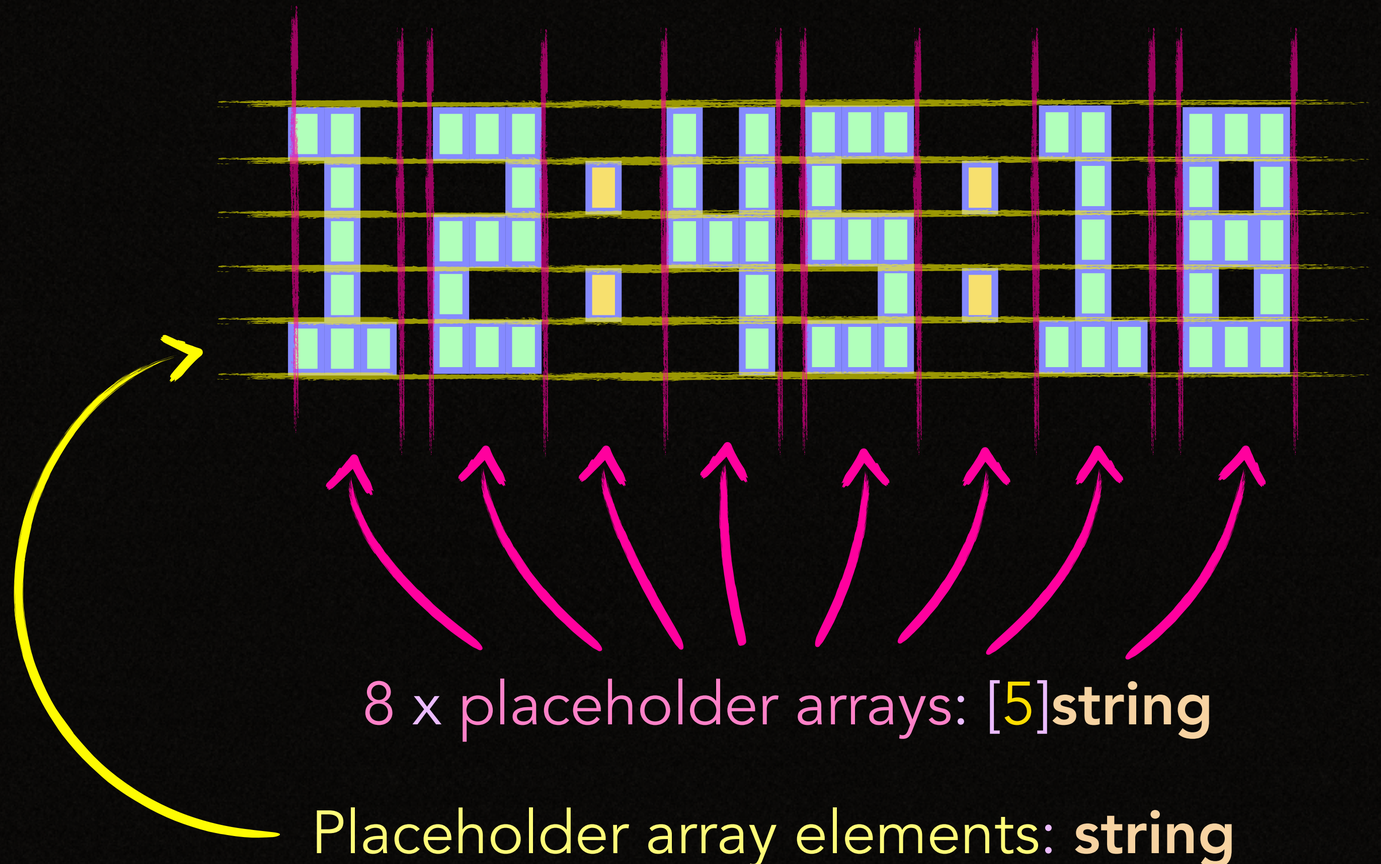
multi-dimensional clock array

[8][5]**string**

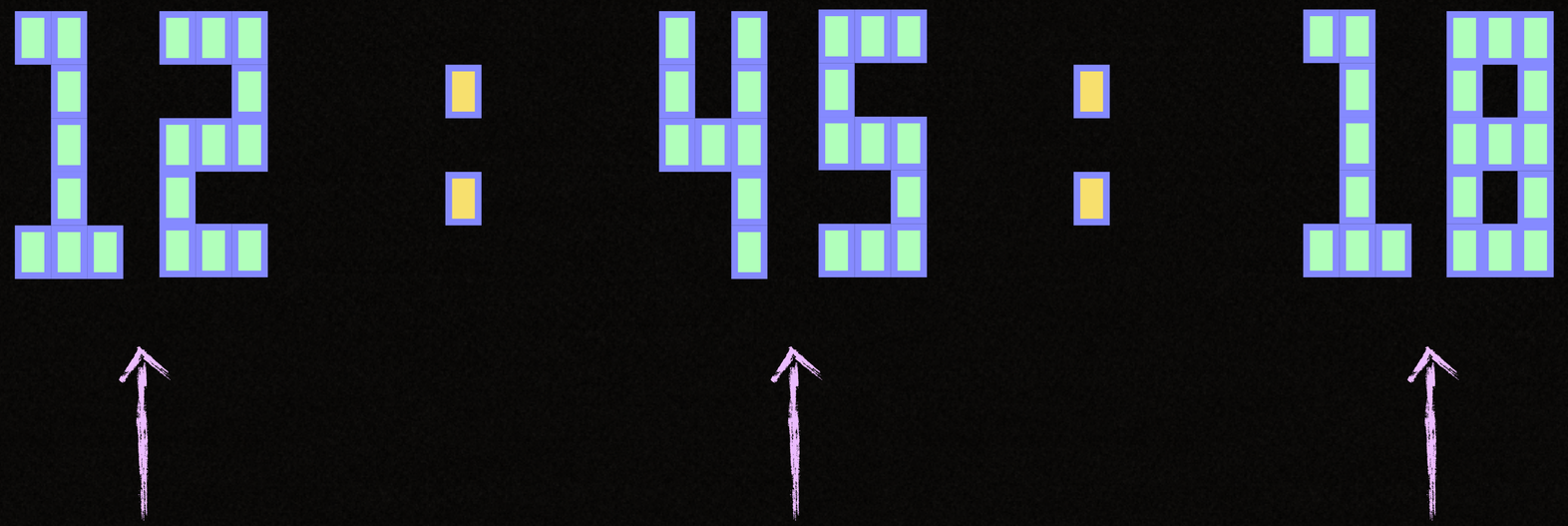


8 x placeholder arrays: [5]**string**

Placeholder array elements: **string**

You will create this **clocks array** by copying the necessary digits from the **digits array**

now := time.Now()



now.Hour() now.Minute() now.Second()

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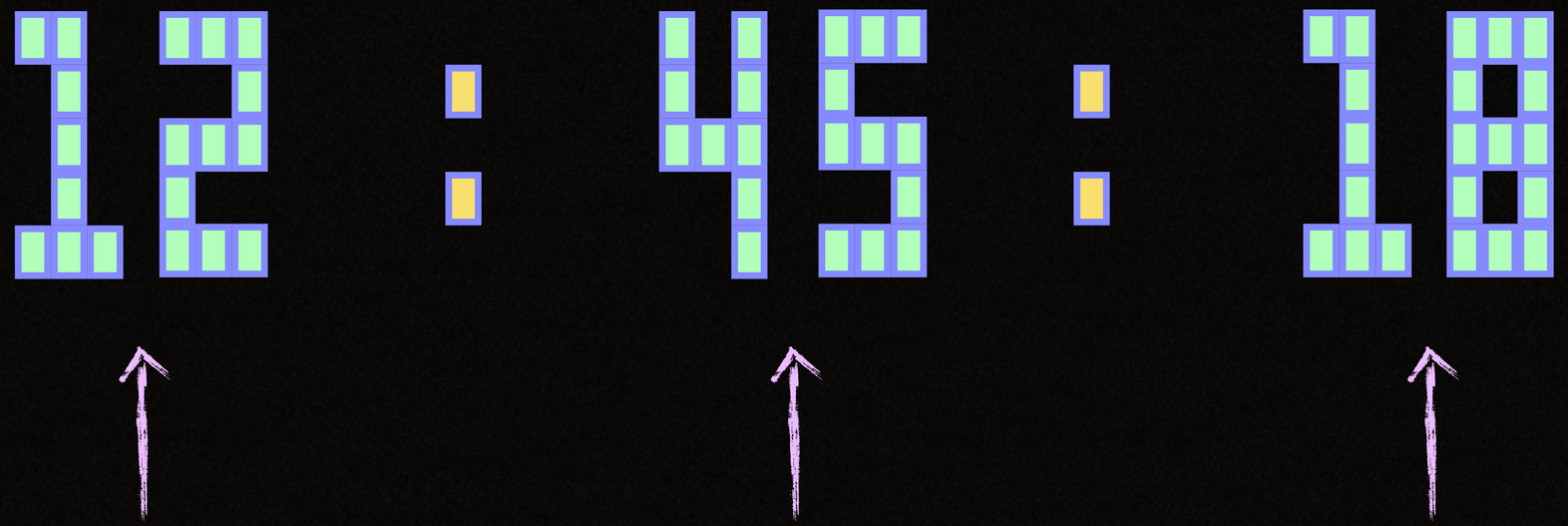
∞

Use an infinite loop to constantly update the clock



now.Hour() now.Minute() now.Second()

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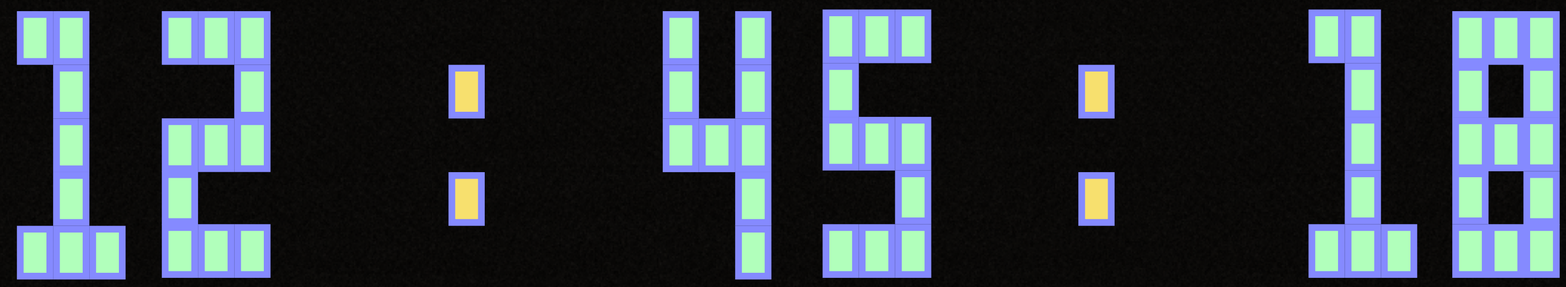
Use time.Sleep function to slow down the loop for 1 second

(use it once at the end of every infinite loop step)



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#1

Clear the screen

once before the infinite loop

#2

Move the cursor to the top-left position

at the beginning of each loop step

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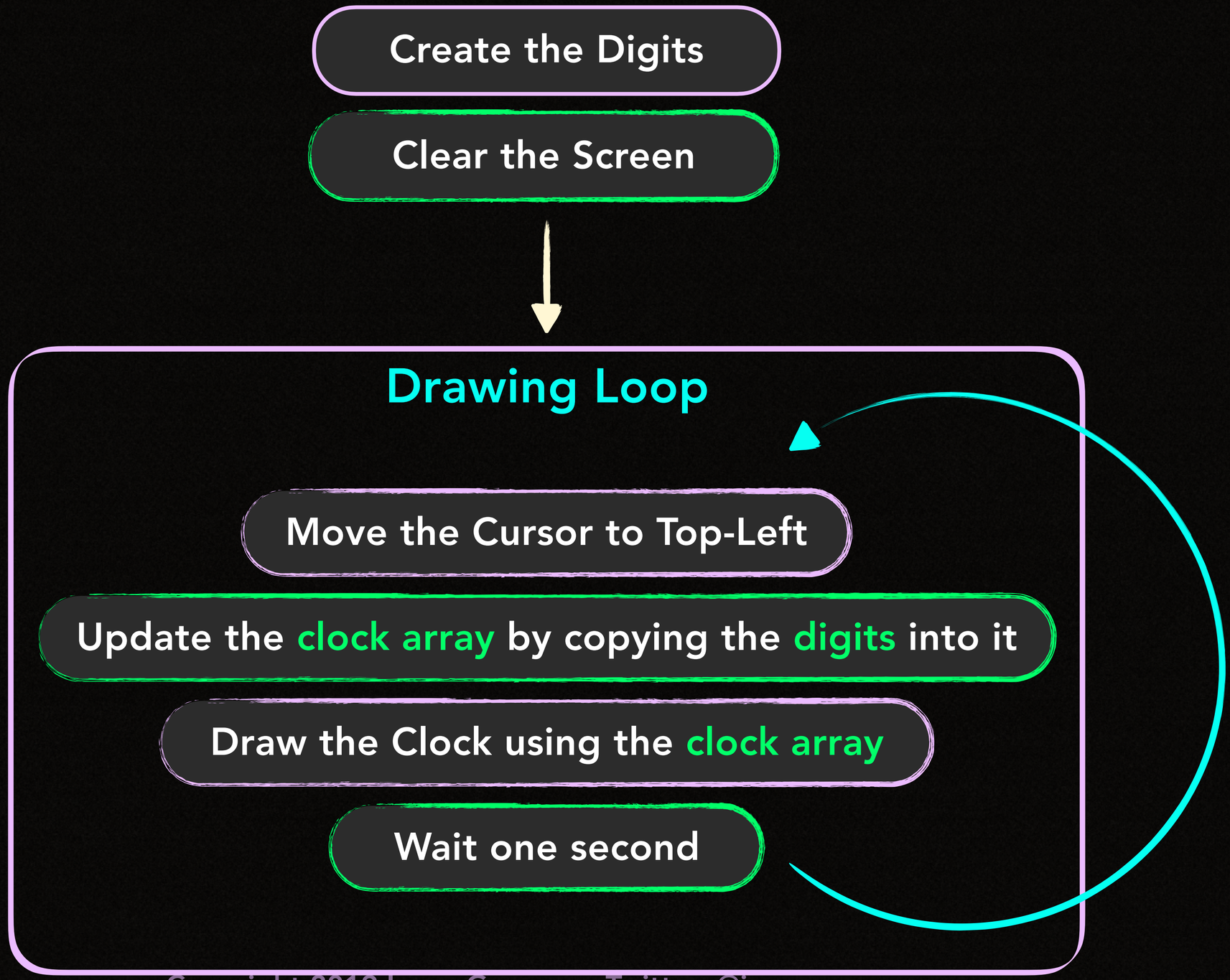
Create the Digits
Clear the Screen
Drawing Loop
Move the Cursor to Top-Left
Update the clock array by copying the digits into it
Draw the Clock using the clock array
Wait one second

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Check out the course repository for the complete instructions

👉 Click the "Challenge" link in the resources

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Solution Step #1: Printing Digits

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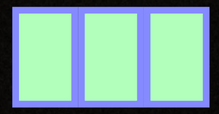
an array for the zero digit

[5]string

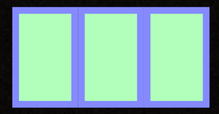
```
zero := placeholder {
    "   ",
    " | ",
    " | ",
    " | ",
    "   ",
}
```

1st element 

2nd element

3rd element

4th element

5th element 

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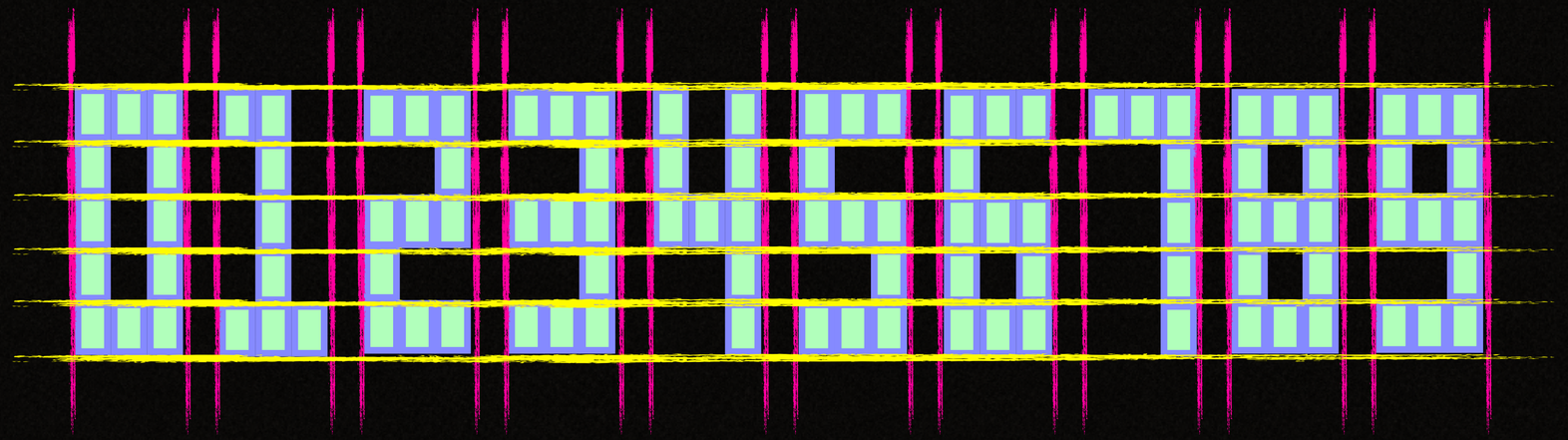
multi-dimensional digits array

[10]placeholder



Each element is a placeholder array

[5]**string**

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loop
5 times...

0123456789

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Solution Step #2: Printing the Clock

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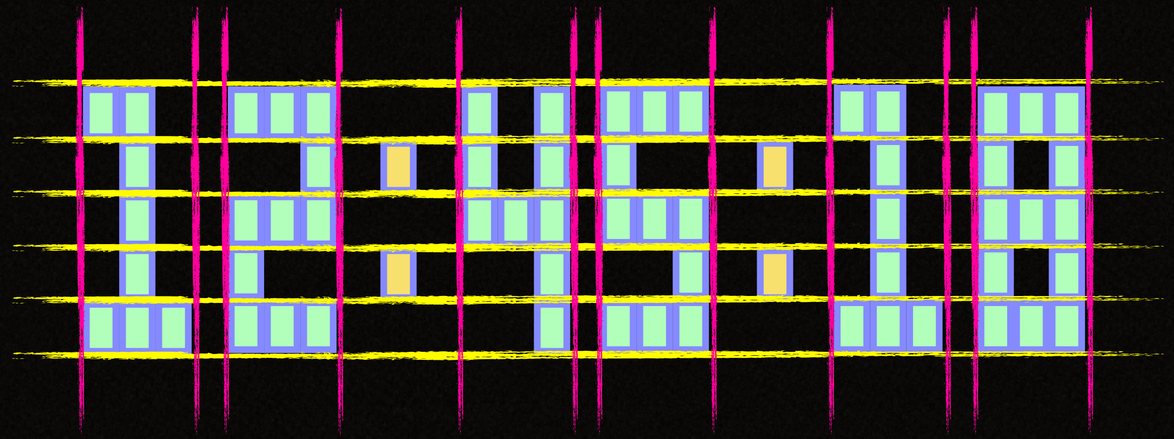
multi-dimensional clock array

[8]placeholder



Red lines represent the placeholder arrays: [5]**string**

Yellow lines represent the placeholder elements: **string**

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